BBA

Gene Structure and Expression

Vol. 1173, 1993

Cumulative Contents

Information for Contributors vii

Review

POU domain transcription factors
C.P. Verrijzer and P.C. Van der Vliet (The Netherlands) 1

Regular Papers

Differential expression of tyrosine aminotransferase by glucocorticoids and insulin
P. Gadson, Jr. and J. McCoy (USA) 22

Expression and characterization of a recombinant maize CK-2 α subunit
B. Boldyreff, F. Meggio, G. Dobrowolska, L.A. Pinna and O.-G. Issinger (Germany, Italy, Poland) 32

Structure and conformation of N^4-hydroxycytosine and N^4-hydroxy-5-fluorocytosine. A theoretical ab initio study
A. Leś, L. Adamowicz and W. Rode (Poland, USA) 39

Protection of mRNA against nucleases in cytoplasmic extracts of mouse sarcoma ascites cells
M. Coutts, A. Krowczynska and G. Brawerman (USA) 49

A 5′ exoribonuclease from cytoplasmic extracts of mouse sarcoma 180 ascites cells
M. Coutts and G. Brawerman (USA) 57

The c-*fos* cAMP-response element: regulation of gene expression by a β_2-adrenergic agonist, serum and DNA methylation
U. Moens, N. Subramaniam, B. Johansen and J. Aarbakke (Norway) 63

Short Sequence-Papers

Molecular cloning and sequencing of the murine alpha-2-macroglobulin receptor cDNA
F. Van Leuven, L. Stas, L. Raymakers, L. Overbergh, B. De Strooper, C. Hilliker, K. Lorent, E. Fias, L. Umans, S. Torrekens, L. Serneels, D. Moechars and H. Van den Berghe (Belgium) 71

Primary structure of *Tetrahymena* hemoglobins
T. Takagi, H. Iwaasa, H. Yuasa, K. Shikama, T. Takemasa and Y. Watanabe (Japan) 75

Characterization of two sheep insulin-like growth factor II cDNAs with different 5′-untranslated regions
J. Demmer, D.F. Hill and G.B. Petersen (New Zealand) 79

cDNA sequence for bovine biglycan (PGI) protein core
M.A. Torok, S.A.S. Evans and J.A. Marcum (USA) 81

Characterization of the gene for seminalplasmin, a secretory protein of the bovine seminal vesicle
J. Kleine Kuhlmann and K.H. Scheit (Germany) 85

Molecular cloning and sequence of two cDNAs for human subunit c of H^+-ATP synthase in mitochondria
T. Higuti, Y. Kawamura, K. Kuroiwa, S. Miyazaki and H. Tsujita (Japan) 87

A *Plasmodium vinckei* cysteine proteinase shares unique features with its *Plasmodium falciparum* analogue
P.J. Rosenthal (USA) 91

The isolation and characterization of a *Drosophila* gene encoding a putative NAD-dependent methylenetetrahydrofolate dehydrogenase-methenyltetrahydrofolate cyclohydrolase
B.D. Price and A. Laughon (USA) 94

Sequence of a gene coding for a cytoplasmic alcohol dehydrogenase from *Kluyveromyces marxianus* ATCC 12424
J.-M. Ladrière, J. Delcour and J. Vandenhaute (Belgium) 99

Sequence analysis of the zebrafish *hox-B5/B6* region
A. Molven, I. Hordvik and P.R. Njølstad (Norway) 102

Two developmentally regulated mRNAs encoding actin-binding proteins in *Physarum polycephalum*
B. St-Pierre, C. Couture, A. Laroche and D. Pallotta (Canada) 107

Structural analysis of an extremely long 5′-noncoding region of rat brain argininosuccinate lyase mRNA: presence of multiple B1 repeats and multiple upstream AUG codons, and a possibility of translational control

S. Kawamoto, Y. Amaya, S. Hattori, Y. Miyagi, H. Onishi and K. Okuda (Japan) 111

Upstream region of a nuclear gene encoding the α-subunit of the human mitochondrial F_0F_1 ATP synthase
E.M. Jordan and G.A.M. Breen (USA) 115

Erratum 119

Regular Papers

Luciferase from the East European firefly *Luciola mingrelica:* cloning and nucleotide sequence of the cDNA, overexpression in *Escherichia coli* and purification of the enzyme
J.H. Devine, G.D. Kutuzova, V.A. Green, N.N. Ugarova and T.O. Baldwin (USA, Russian Federation) 121

Differential expression and stability of poly-ADP-ribose)polymerase mRNA in human cells
M. Negroni and U. Bertazzoni (Italy) 133

Conserved cysteine residues of Oct-2 POU domain confer sensitivity to oxidation but are dispensable for sequence-specific DNA binding
P. Rigoni, L. Xu, K. Harshman, W. Schaffner and D.N. Arnosti (Switzerland) 141

Human immunodeficiency virus type-1 reverse transcriptase copies very short templates: kinetic and crosslinking analysis
M.-L. Andreola, E. Dufour, L. Tarrago-Litvak, V.I. Jamkovoy, A.S. Levina, P.J. Barr, S. Litvak and G.A. Nevinsky (France, Russian Federation, USA) 147

DNA relaxation mediated by *Ustilago maydis* type I topoisomerase; modulation by chromatin associated proteins
M.M. Thiyagarajan, H. Kotani, W.K. Holloman and E.B. Kmiec (USA) 155

Rat liver flavin-containing monooxygenase (FMO): cDNA cloning and expression in yeast
K. Itoh, T. Kimura, T. Yokoi, S. Itoh and T. Kamataki (Japan) 165

Expression and alternative splicing of fibronectin mRNA in human diploid endothelial cells during aging in vitro
F. Pagani, L. Zagato, J.A.M. Maier, G. Ragnotti, D.A. Coviello and C. Vergani (Italy) 172

Characterization of the mouse thrombomodulin gene and functional analysis of the 5′ flanking region in F9 teratocarcinoma cells
P. Niforas, G.M. Sanderson, C.H. Bird and P. Bird (Australia) 179

Alternative processing of the gene transcripts encoding a plasma-membrane and a sarco/endoplasmic reticulum Ca^{2+} pump during differentiation of BC_3H1 muscle cells
S. De Jaegere, F. Wuytack, H. De Smedt, L. Van Den Bosch and R. Casteels (Belgium) 188

HL35e and HLA: primary structure of two very basic and cysteine-rich ribosomal proteins from *Haloarcula marismortui*
U. Bergmann and B. Wittmann-Liebold (Germany) 195

Cloning, expression and in vitro characterisation of the M13 gene 5 protein
G.P. Turner and G.G. Kneale (UK) 201

Inhibition of CpG methylation in linker DNA by H_1 histone
M. D'Erme, R. Santoro, P. Allegra, A. Reale, S. Marenzi, R. Strom and P. Caiafa (Italy) 209

Purification, cDNA cloning and Northern blot analysis of trehalase of pupal midgut of the silkworm, *Bombyx mori*
Z.-H. Su, Y. Sato and O. Yamashita (Japan) 217

Short Sequence-Papers

The *Dictyostelium* myosin IE heavy chain gene encodes a truncated isoform that lacks sequences corresponding to the actin binding site in the tail
R.A. Urrutia, G. Jung and J.A. Hammer III (USA) 225

The cDNA sequence of horse transferrin
M.A. Carpenter and T.E. Broad (New Zealand) 230

Structure of the ABF1-homologue from *Kluyveromyces marxianus*
E.H.H. Oberyé, K. Maurer, W.H. Mager and R.J. Planta (The Netherlands) 233

Identification of a *nifW*-like gene in *Azospirillum brasilense*
A. Milcamps, V. Keyers and J. Vanderleyden (Belgium) 237

Cloning and sequencing of a *Xenopus* homologue of the inducible orphan receptor NGFI-B
T.S. Smith, P.J. Matharu and G.E. Sweeney (UK) 239

Nucleotide sequence of a full-length cDNA encoding a common precursor of platelet aggregation inhibitor and hemorrhagic protein from *Calloselasma rhodostoma* venom
L.-C. Au, J.-S. Chou, K.-J. Chang, G.-W. Teh and S.-B. Lin (Taiwan, ROC) 243

Review

Non-snRNP protein splicing factors
G.M. Lamm and A.I. Lamond (Germany) 247

Regular Papers

Binding to DNA of selected lexitropsins and effects on prokaryotic topoisomerase activity
G. Burckhardt, G. Luck, K. Störl, C. Zimmer and J.W. Lown (Germany, Canada) 266

Structural arrangement of the codon–anticodon interaction area in human placenta ribosomes. Affinity labelling of the 40S subunits by derivatives of oligoribonucleotides containing the AUG codon
D.A. Mundus, K.N. Bulygin, V.I. Yamkovoy, A.A. Malygin, M.N. Repkova, L.V. Vratskikh, A.G. Venijaminova, S.N. Vladimirov and G.G. Karpova (Russian Federation) 273

Tissue-specific expression of glutathione peroxidase gene in guinea pigs
S. Himeno, A. Takekawa, H. Toyoda and N. Imura (Japan) 283

Synthesis of mammalian prolylendopeptidase in *Escherichia coli* and analysis of the recombinant protein
J. Sommer (Denmark, Germany) 289

Conservation in sequence and affinity of human and rodent PDGF ligands and receptors
B. Herren, K.A. Weyer, M. Rouge, P. Lötscher and M. Pech (Switzerland) 294

Structural and functional analysis of 5′ flanking and intron 1 sequences of the hamster P-glycoprotein *pgp1* and *pgp2* genes
R.L. Zastawny and V. Ling (Canada) 303

Rapid Report

Cloning and characterization of a bovine alpha interferon receptor
J.-K. Lim and J.A. Langer (USA) 314

Short Sequence-Papers

Nucleotide sequence of levansucrase gene (*levU*) of *Zymomonas mobilis* ZM1 (ATCC10988)
K.-B. Song, H.-K. Joo and S.-K. Rhee (South Korea) 320

Molecular cloning and sequence analysis of the monkey and human tissue kallikrein genes
F.-K. Lin, C.-H. Lin, C.C. Chou, K. Chen, H.S. Lu, W. Bacheller, C. Herrera, T. Jones, J. Chao and L. Chao (USA) 325

Nucleotide sequence of *psbB* from *Synechococcus* sp. strain PCC 7942
R.D. Kulkarni, U.W. Mueller and S.S. Golden (USA) 329

Sequence of Lhcb3*1, a gene encoding a Photosystem II chlorophyll *a*/*b*-binding protein in *Pisum*
D. Falconet, C. Godon, M.J. White and W.F. Thompson (France, USA) 333

Identification of homologues to β-catenin/plakoglobin/armadillo in two invertebrates, *Urechis caupo* and *Tripneustes gratilla*
E. Rosenthal (USA) 337

Isolation, sequence and functional expression of the mouse m4 muscarinic acetylcholine receptor gene
C.J. Van Koppen, W. Lenz and N.M. Nathanson (Germany, USA) 342

Cloning and structural determination of human peptide YY cDNA and gene
K. Kohri, K. Nata, H. Yonekura, A. Nagai, K. Konno and H. Okamoto (Japan) 345

Cloning and sequence analysis of rat hepsin, a cell surface serine proteinase
D. Farley, F. Reymond and H. Nick (Switzerland) 350

Molecular cloning and expression of a rat cDNA encoding MDCK-type chloride channel
T. Abe, K. Takeuchi, K. Ishii and K. Abe (Japan) 353

Identification of a *ras* gene in the slime mold *Physarum polycephalum*
P. Kozlowski, J. Fronk and K. Toczko (Poland) 357

Cumulative Contents, Vol. 1173 361

Author Index 365